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1	RECORD OF ORAL HEARING
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3	UNITED STATES PATENT AND TRADEMARK OFFICE
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6	BEFORE THE BOARD OF PATENT APPEALS
7	AND INTERFERENCES
8	THE INTERNET EXELUCES
9	
10	Ex parte GOTTLIEB-GEORG LINDNER, ROBERT KUHLMANN,
11	and CLAUS-PETER DREXEL
12	und CENTOO TETER DREADE
13	
14	Appeal 2010-000463
15	Application 10/079,479
16	Technology Center 1700
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19	Oral Hearing Held: June 10, 2010
20	,
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22	Before CHARLES F. WARREN, CATHERINE Q. TIMM, and
23	STEPHEN WALSH, Administrative Patent Judges.
24	,
25	APPEARANCES:
26	
27	ON BEHALF OF THE APPELLANT:
28	
29	JAY E. ROWE, JR., PH.D.
30	Oblon, Spivak, McClelland, Maier
31	& Neustadt, LLP
32	1940 Duke Street
33	Alexandria, Virginia 22314
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- 1 The above-entitled matter came on for hearing on Thursday, June 10.
- 2 2010, commencing at 2:31 p.m., at the U.S. Patent and Trademark Office.
- 3 600 Dulany Street, Alexandria, Virginia, before Christine L. Loeser, Notary
- 4 Public.
- 5 THE COURT: As you know, you have 20 minutes. You can begin when
- 6 ready.
- 7 MR. ROWE: Formally, may it please the Court, my name is Jay Rowe, I am
- 8 a patent agent with Oblon Spivak and I'm here to represent the Appellant in
- 9 this case.
- 10 I would like to point out initially that in the Examiner's Answer, the
- 11 Examiner in the response to argument section on page 8 indicated that
- whereas previously, there were rejections based on both inherency and on
- 13 obviousness, that the rejection on inherency is no longer relied on and that
- 14 apparently the only rejection remaining is the obviousness rejection, the
- 15 obviousness being the combination of EP 755 and the Turk reference.
- 16 So my remarks will be addressing just that obviousness rejection unless
- 17 there are other questions that you may have or wish to discuss that.
- 18 I would like to go right to the Examiner's statement that it would have been
- 19 obvious to one of ordinary skill in the art to optimize the alkali number of
- 20 the process conditions of EP 755 as suggested by the Turk reference and
- 21 then, in close review of the Turk reference, I would like to point out that that
- 22 reference states as an objective in column 4 that the goal is to have a high
- 23 DBP value for the precipitated silica to which it is directed.
- 24 I would point out that that's actually in the opposite direction of what the
- 25 Appellants are striving for in their invention. The Appellants in the

- 1 precipitated silica at hand are looking for a product which has high
- 2 absorptivity for hydrophilic-type materials.
- 3 And in a very complex world of precipitated silica, where the surface
- 4 characteristics, both physically and chemically, are very much dependent
- 5 upon a whole myriad of process and conditions, the Appellants have
- 6 determined that, in addition to the more or less conventional measures of the
- 7 surface characteristics of the silica, they have added this sears number which
- 8 is an indication of the number and density of silanol groups on the surface.
- 9 And they have also used a ratio of the DBP number to the choline chloride
- 10 absorptivity, which I would point out then since the DBP is hydrophobic.
- 11 choline chloride is being indicated as a hydrophilic-type material, actually it
- 12 is ionic, gives a relative sense as to the balance of hydrophobic versus
- 13 hydrophilic character of the surface composition.
- 14 So when you go to the 379, the Turk reference and he's stated in his
- 15 objective that the goal is to have a project which has a high DBP value, in
- 16 other words, a surface which a has high character, high absorptivity for
- 17 hydrophobic materials, that reference is actually going in the opposite
- 18 direction than what the invention at hand is directed toward.
- 19 I point out, too, that in the description that Turk provides, in multiple places,
- 20 he points out that in addition to the processing conditions that are basically
- 21 recognized as somewhat conventional, pH, time of precipitation,
- 22 temperature, those kinds of things, that everything that is important in his
- 23 invention is related to the dispersion technique under which he promotes the
- 24 precipitation of the silica.
- 25 So for example, in column 5, he will talk about variation of things but it's the
- 26 feature of the invention that by varying and combining different dispersing

- 1 factors such as throughput frequency, timing, duration of the dispersion, it's
- 2 possible to get the structure with a high DBP value.
- 3 So he's throwing in there a variable which is not present in the EP 755 type
- 4 invention.
- 5 JUDGE WALSH: May I ask you a question about that? The example in EP
- 6 755 that the Examiner relied on for the obviousness of the product was a
- 7 silica that had been prepared with a constant alkali number of 7.
- 8 MR. ROWE: That's correct.
- 9 JUDGE WALSH: I didn't understand your point that there wasn't anything
- 10 like that in the 755.
- 11 MR. ROWE: What Turk describes is that in addition to something such as
- 12 the alkali number, that it is the requirement that, during the course of this
- 13 precipitation, he is constantly circulating it through a dispersing mechanism
- or medium to break down the particle size and that, without that particular
- 15 mechanical dispersion, he does not get the properties that he is seeking in the
- 16 invention that he describes. There is, in the EP reference --
- 17 JUDGE WALSH: So are you saying that both of those factors are important
- 18 in Turk?
- 19 MR. ROWE: Yes.
- 20 JUDGE WALSH: The alkali number and the circulation?
- 21 MR. ROWE: I'm saying the circulation is absolutely required, the
- 22 dispersion is required and I would like to point out that, going forward with
- 23 that, if you go to table 6 in the Turk reference, bear with me a second here,
- 24 I'm sorry, table 4 on, in column 15 and it continues over into column 16, you
- 25 will see that he uses an alkali number.
- 26 He shows that the DBP number actually increases with increasing alkali

- 1 number which would then lead to the conclusion for one of ordinary skill in
- 2 the art that by increasing the alkali number from the 7, which is described in
- 3 the EP reference, that you would get, correspondingly, an increase in the
- 4 DBP number, which represents an increase in the hydrophobic character of
- 5 the surface, not the affinity for hydrophilic materials which is what is being
- 6 sought after in the present invention.
- 7 So it is going, it would appear to go in the opposite direction. The Examiner
- 8 has said it would be obvious to read the description of Turk into or change
- 9 the alkali number according to that description in order to optimize or
- 10 increase the hydrophilic character, the choline chloride number or
- 11 correspondingly, the sears number in the precipitated silica.
- 12 I would say that one of ordinary skill in the art would not read Turk and take
- 13 away from that that increasing the alkali number would, in fact, lead in the
- 14 direction of increasing the hydrophilic character of the precipitated silica.
- 15 JUDGE WALSH: Did Turk disclose a pattern relating the alkali number to
- 16 choline chloride?
- 17 MR. ROWE: The only description that Turk has of choline chloride is
- 18 found in example 26 in column 20 and, in this case, he indicates, all he does
- 19 is take example 1 and example 22.
- 20 Example 22 doesn't give the alkali number. So you would assume that
- 21 because he says in his text that an alkali of 30 is the preferred number that
- 22 since it's not described here, that perhaps that is where he is going. And I'm
- 23 just making that as an assumption because it is not there.
- 24 I would point out in that example, he indicates that the choline chloride
- 25 weight percentage absorption is 55 percent and 58 percent, respectively,
- 26 between the two samples and if you correlate that to the numbers that are

- 1 used in the current description, the current specification, that would lead to a
- 2 DBP ratio, DBP to choline chloride ratio that's greater than 2.
- 3 So what it is saying is that in accord with what Turk is describing, he has
- 4 taken the hydrophobic character of the surface and elevated that in
- 5 comparison to the hydrophilic character, which is the opposite direction of
- 6 what the claimed invention is trying to accomplish or does accomplish.
- 7 So I would say based on that, that one of ordinary skill in the art would not
- 8 look to Turk, would not get description or motivation to increase the alkaline
- 9 number for the purpose of increasing the hydrophilic character of the
- 10 precipitated silica, let alone looking at a sears number.
- 11 Therefore, the obviousness rejection should be reversed. It doesn't hold.
- 12 Any questions?

- 13 JUDGE TIMM: No questions.
- 14 JUDGE WALSH: No questions.
- 15 THE COURT: Thank you very much, counselor. Proceeding is terminated.
- Whereupon, the proceedings, at 2:42 p.m., were concluded.